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1 [XPL: an expert systems framework in APL](#)



Robert Bittlestone

May 1985 ACM SIGAPL APL Quote Quad, Volume 15 Issue 4

Publisher: ACM

Full text available: [pdf\(703.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 4

It is hardly possible to pick up a computer journal today without seeing references to the Alvey project in the UK, the Esprit project run by the EEC, the Japanese "Fifth generation" initiative, the proliferation of knowledge-based computer ...

2 XPL: an expert systems framework in APL



Robert Bittlestone

June 1986 APL '85: Proceedings of the international conference on APL: APL and the future

Publisher: ACM

Full text available:  [pdf\(703.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

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It is hardly possible to pick up a computer journal today without seeing references to the Alvey project in the UK, the Esprit project run by the EEC, the Japanese "Fifth generation" initiative, the proliferation of knowledge-based computer ...

3 Creating effective hypercard online documentation and training



M. Natchez, T. Prose

November 1989 SIGDOC '89: Proceedings of the 7th annual international conference on Systems documentation

Publisher: ACM

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

In recent years, the "hypers" have made a strong impact on technical communication. Hypertext and hypermedia applications have shown that it is possible to communicate information in user-defined, non-linear ways, taking advantage of multiple ...

4 Leveraging data complexity: Pupillary behavior of older adults with visual impairment during HCI



Kevin P. Moloney, Julie A. Jacko, Brani Vidakovic, François Sainfort, V. Kathlene Leonard, Bin Shi

September 2006 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 13 Issue 3

Publisher: ACM

Full text available:  [pdf\(832.62 KB\)](#)

Additional Information: [full citation](#), [appendices and supplements](#),

[abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 246, Citation Count: 0

The current ubiquity of information technology has increased variability among users, creating a corresponding need to properly capture and understand these individual differences. This study introduces a novel application of multifractal statistical ...

Key words: Age-related macular degeneration, aging, eyetracking, human-computer interaction, multifractality, older adults, physiological signals, pupil diameter, visual impairment, wavelets

5 Inverted files for text search engines



Justin Zobel, Alistair Moffat

July ACM Computing Surveys (CSUR), Volume 38 Issue 2
2006

Publisher: ACM

Full text available: [pdf\(944.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 134, Downloads (12 Months): 1964, Citation Count: 4

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

6 External memory algorithms and data structures: dealing with massive data



Jeffrey Scott Vitter

June ACM Computing Surveys (CSUR), Volume 33 Issue 2
2001

Publisher: ACM

Full text available: [pdf\(828.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 64, Downloads (12 Months): 780, Citation Count: 64

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

7 Communications of the ACM: Volume 51 Issue 1



January issue Volume 51 Issue 1
2008

Publisher: ACM

Full text available: [pdf\(5.97 MB\)](#) [digital edition\(00 bytes\)](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 488, Downloads (12 Months): 1076, Citation Count: 0

8 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)



Thomas Haigh

January 2006 ACM Oral History interviews

Publisher: ACM

Full text available: [pdf\(974.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 370, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during ...

9 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)



Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 1

Publisher: ACM

Full text available: [pdf\(1.70 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 1628, Citation Count: 3

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keyw ords: Grid computing, data-intensive applications, replica management, virtual organizations

10 [Geometric modeling based on triangle meshes](#)



Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt

July 2006 SI GGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available: [pdf\(24.22 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 673, Citation Count: 0

11 [Process-centered review of object oriented software development methodologies](#)



Raman Ramsin, Richard F. Paige

February 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 1

Publisher: ACM

Full text available: [pdf\(2.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 423, Downloads (12 Months): 712, Citation Count: 0

We provide a detailed review of existing object-oriented software development methodologies, focusing on their development processes. The review aims at laying bare their core philosophies, processes, and internal activities. This is done by using a ...

Keywords: Object-oriented methodologies, agile methods, integrated methodologies, methodology engineering, seminal methodologies

12 [Process migration](#)



Dejan S. Milojić, Fred Douglass, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 591, Citation Count: 24

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

13 [Frontmatter \(TOC, Letters, Election results, Software Reliability Resources!,](#)



[Computing Curricula 2004 and the Software Engineering Volume SE2004,](#)
[Software Reuse Research, ICSE 2005 Forward\)](#)

July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4

Publisher: ACM

Full text available: [pdf\(6.19 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 573, Citation Count: 0

14 [ACM SIGMIS Database: Volume 34 Issue 1](#)



January issue Volume 34 Issue 1
2003

Publisher: ACM

Full text available: [pdf\(690.15 KB\)](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 33, Citation Count: 0

15 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: [pdf\(20.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 664, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent ...

16 [interactions: Volume 15 Issue 2](#)



March 2008 issue Volume 15 Issue 2

Publisher: ACM

Full text available: [pdf\(8.29 MB\)](#) [digital edition\(.00 bytes\)](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 306, Downloads (12 Months): 306, Citation Count: 0

17 [A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste
August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on
Experimental approaches to wireless network design and analysis

Publisher: ACM

Full text available: [pdf\(6.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 446, Citation Count: 1

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Key words: channel capture, emulation, wireless

18 Parallel execution of prolog programs: a survey



Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001 ACM Transactions on Programming Languages and Systems (TOPLAS),
Volume 23 Issue 4

Publisher: ACM

Full text available: [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 138, Citation Count: 10

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, ...

Key words: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

19 Communications of the ACM: Volume 51 Issue 4



April 2008 issue Volume 51 Issue 4

Publisher: ACM

Full text available: [pdf\(4.24 MB\)](#) [digital edition\(.00 bytes\)](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

20 Communications of the ACM: Volume 51 Issue 2



February 2008 issue Volume 51 Issue 2

Publisher: ACM

Full text available: [pdf\(3.89 MB\)](#) [digital edition\(.00 bytes\)](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 385, Downloads (12 Months): 645, Citation Count: 0

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